

Fig. 1

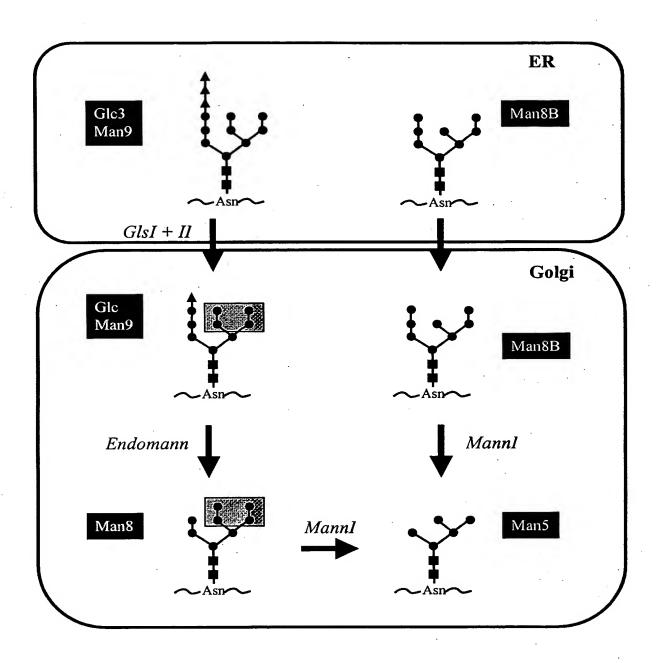


Fig. 2

A

>gi|20547442|ref(XP_113472.1| (XM_113472) hypothetical protein FLJ12838 [Homo sapiens]
Length = 290

Score = 526 bits (1354), Expect = e-148 Identities = 258/290 (88%), Positives = 276/290 (94%)

Query: 162 MKQMRSASIGVLALSWYPPDASDENGEATDYLVPTILDKAHKYNLKVTFHIEPYSNRDDQ 221 M+QMRSASIGVLALSWYPPD +DENGE TD LVPTILDKAHKYNLKVTFHIEPYSNRDDQ

Sbjct: 1 MRQMRSASIGVLALSWYPPDVNDENGEPTDNLVPTILDKAHKYNLKVTFHIEPYSNRDDQ 60

Query: 222 NMHQNVKYIIDKYGNHPAFYRYKTRMGHSLPMFYIYDSYITKPKTWANLLTPSGSQSVRG 281 NM++NVKYIIDKYGNHPAFYRYKT+ G++LPMFY+YDSYITKP+ WANLLT SGS+S+R

Sbjet: 61 NHYKNVKYIIDKYGNHPAFYRYKTKTGNALPHFYVYDSYITKPEKWANLLTTSGSRSIRN 120

Query: 282 SPYDGLFIALLVEEKHKYDILQSGFDGIYTYFATNGFTYGSSHQNWNKLKSFCEKNNMIF 341

SPYDGLFIALLVEEKHKYDILQSGFDGIYTYFATNGFTYGSSHQNW LK FC+K N+IF

Sbjet: 121 SPYDGLFIALLVEEKHKYDILQSGFDGIYTYFATNGFTYGSSHQNWASLKLFCDKYNLIF 180

Query: 342 IPSVGPGYIDTSIRPWNTQNTRNRINGKYYEVGLSAALQTQPSLISITSFNEWHEGTQIE 401 IPSVGPGYIDTSIRPWNTQNTRNRINGKYYE+GLSAALQT+PSLISITSFNEWHEGTQIE

Sbjct: 181 IPSVGPGYIDTSIRPWNTONTRNRINGKYYEIGLSAALQTRPSLISITSFNEWHEGTQIE 240

Query: 402 KAVPKRTANTVYLDYRPHKPSLYLEITRKWSEKYSKERMTYALDQQLPAS 451

KAVPKRT+NTVYLDYRPHKP LYLE+TRKWSEKYSKER TYALD+QLP S

Sbjct: 241 KAVPKRTSNTVYLDYRPHKPGLYLELTRKWSEKYSKERATYALDRQLPVS 290

В

><u>gi|18031878|gb|AAL07306.1|</u> (AY048774) mandaselin short form [Homo sapiens] Length = 195

Score = 49.7 bits (117), Expect = 9e-06 Identities = 22/23 (95%), Positives = 23/23 (99%)

Query: 1 MRQMRSASIGVLALSWYPPDVND 23

MRQMRSASIGVLALSWYPPDVN+

Sbjct: 173 MRQMRSASIGVLALSWYPPDVNE 195

C

>gi|18031878|gb|AALO7306.1| mandaselin short form [Homo sapiens]
MAKFPRRTCIILALFILFIFSLMMGLKMLRPNTATFGAPFGLDLLPELHQRTIHLGKNFDFQKSDRINSE
TNTKNLKSVEITMKPSKASELNLDELPPLNNYLHVFYYSWYGNPQFDGKYIHWNHPVLEHWDPRIAKNYP
OGRHNPPDDIGSSFYPELGSYSSRDPSVIETHMRQMRSASIGVLALSWYPPDVNE

1 MAKFRRRTCIILALFILFIFSLMMGLKMLRPN 96 TACAGCTACTTTTGGAGCTCCTTTTGGACTTGACCTTCCTCCAGAACTTCATCAACGAACTATTCATTTGGGGAAAAATTTTGATTTCCAAAAAGA TATFGAPFGLDLLPELHQRTIHLGKNFDFQK 191 GTGACAGAATCAACAGTGAAACAAATACCAAGAATTTAAAAAGTGTTGAAATCACTATGAAACCTTCCAAAGCCTTCTGAACTTTAACTTGGATGAA 64 S D R I N S E T N T K N L K S V E I T M K P S K A S E L N L D E 286 CTACCACCTCTGAACAATTATCTACATGTATTTTATTACAGTTGGTATGGAAATCCACAATTTGGTAAATATATACATTGGAATCATCCAGT 96 LPPLNNYLHVFYYSWYGNPQFDGKYIHWNHPV 381 GTTAGAGCATTGGGACCCTAGAATAGCCAAGAATTATCCACAAGGGAGACACAACCCTCCAGATGACATTGGCTCCAGCTTTTATCCTGAATTGG L E H W D P R I A K N Y P Q G R H N P P D D I G S S F Y P E L 476 GAAGTTACAGTTCTCGGGATCCTTCTGTCATAGAAACTCACATGAGACAAATGCGCTCAGCTTCAATTGGTGTACTAGCCCTCTTT 159 G S Y S S R D P S V I E T H M R Q M R S A S TTGV 563 GGTACCCACCTGATGTAAATGAAAATGGAGAACCTACTGATAACTTGGTACCCACTATTTTGGATAAAGCTCATAAATATAACCTAAA TD V N D E N G E P T D N L V P T ! L D K A H K Y N L K 188 W Y P P 654 GGTTACTTTTCACATAGAACCATATAGCAATCGAGATGATCAAAACATGTACAAAAATGTCAAGTATATTATAGACAAATATGGAAATCATCCGG 218 V T F H I E P Y S N R D D Q N M Y K N V K Y I I D K Y G N H P 749 CCTTTTACAGGTACAAGACGAAGACTGGCAATGCTCTTCCTATGTTTTATGTCTATGATTCCTATATTACCAAGCCTGAAAAAATGGGCCAATCTG 250 A F Y R Y K T K T G N A L P M F Y V Y D S Y I T K P E K W A N L 844 TTAACCACCTCAGGGTCTCGGAGTATTCGCAATTCTCCTTATGATGGACTGTTTATTGCCCTTCTGGTAGAAAAAACATAAGTATGATATTCT 282 L T T S G S R S I R N S P Y D G L F I A L L V E E K H K Y D I L 313 PQSGFDGIYTYFATNGFTYGSSHQNWASLKLI 1034 GTGATAAATACAACTTAATATTTATCCCAAGTGTGGGCCCAGGATACATAGATACCAGCATCCGTCCATGGAACACGCAAAACACTCGGAACCGA 345 C D K Y N L I F I P S V G P G Y I D T S I R P W N T Q N T R N R 1129 ATCAATGGGAAGTATTATGAAATTGGTCTGAGTGCCGCACTTCAGACACGCCCCAGCTTAATTTCTATCACCTCTTTTAATGAGTGGCATGAAGG 377 N G K Y Y E I G L S A A L Q T R P S L I S I T S F N E W H E G 1224 AACTCAGATTGAAAAGCTGTTCCCAAAAGAACCAGTAATACAGTGTACCTAGATTACCGTCCTCATAAACCAGGTCTTTACCTAGAACTGACTC T Q I E K A V P K R T S N T V Y L D Y R P H K P G L Y L E L 1319 GCAAGTGGTCTGAAAAATACAGTAAGGAAAGAGCCAACTTATGCATTAGATCGCCAGCTGCCTGTTTCTTAA 440 PR KWSEKYSKERATYALDRQLP

Fig. 4

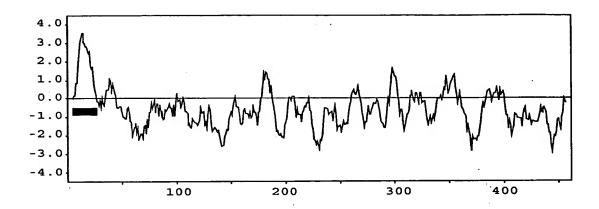
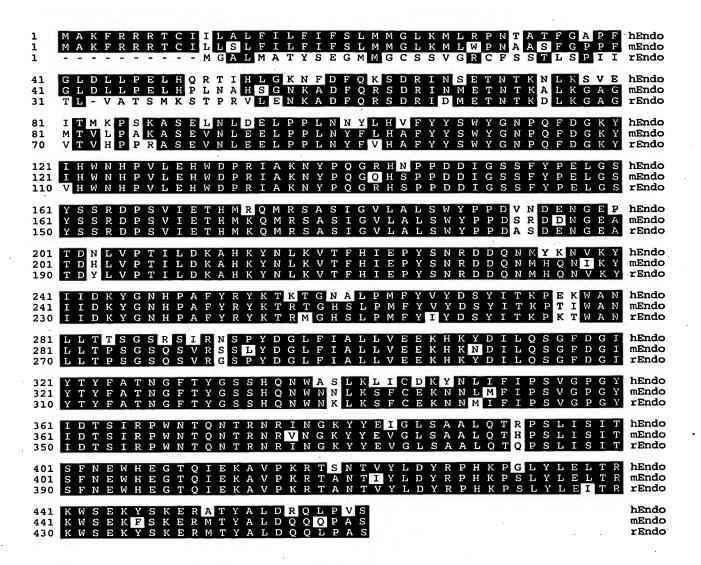


Fig. 5

1 M A K F R R R T C I L L S L F I L F I F S L M M G L K M L W P 95 ACGCAGCATCCTTTGGACTCGACTTGACCTCCTTCCAGAACTTCATCCACTAAATGCGCATTCGGGAAACAAGCTGACTTCCAAAG 32 N A A S F G P P F G L D L L P B L H P L N A H S G N K A D F Q.R S D R I N M E T N T K A L K G A G M T V L P A K A S E V N L E 283 GAACTACCTCCTGAATTACTTTTTACATGCATTTATTACAGTTGGTATGGAAATCCACAGTTTGATGGTAAATATATACACTGGAATCATC 95 B L P P L N Y F L H A F Y Y S W Y G N P Q F D G K Y I H. W N H CGGTCCTGGAACACTGGGACCCTCGGATAGCCAAGAACTATCCACAAGGACAACATAGTCCTCCAGACGACATTGGCTCCAGTTTTTATCCTGA 126 P V L B H W D P R I A K N Y P Q G Q H S P P D D I G S S F Y P B 471 GTTAGGAAGTTACAGCTCTCGAGACCCTTCTGTCATAGAAACTCACATGAAACAAATGCGCTCAGCCTCAATTGGAGTTCTGGCCCTGTCTTCG 157 LGSYSSRDPSVIETHMKQMRSASIGVLALSW 565 TACCCACCTGATTCAAGGGATGACAATGGCGAAGCTACTGATCACTTGGTGCCAACCATTTTGGATAAAGCTCATAAATATAATCTGAAGGTCA 189 Y P P D S R D D N G E A T D H L V P T I L D K A H K Y N L K V 659 CTTTTCACATAGAGCCATATAGCAATCGAGATGATCAAAACATGCATCAAAATATCAAGTATATTATAGACAAATATGGAAACCATCCAGCCTT 220 T F H I E P Y S N R D D Q N M H Q N I K Y I I D K Y G N H P A F 753 TTATAGATACAAGACCAGGACTGGGCATTCTCTGCCCATGTTTTATGTCTATGATTCTTACATCACAAAGCCTACAATATGGGCCAATCTGTTA 251 Y R Y K T R T G H S L P M F Y V Y D S Y I T K P T I W A N L L 847 ACACCCTCCGGATCTCAGAGTGTTCGCAGTTCTCTTATGATGGATTGTTTATTGCACTTCTAGTAGAAGAAAAAGCATAAAAAATGATATTCTTC 283 T P S G S Q S V R S S L Y D G L F I A L L V B E K H K N D I L 941 AGAGTGGTTTTGATGGTATTTACACATATTTTGCCACAAATGGCTTTACATATGGCTCATCATCAGAATTGGAATAACCTGAAATCCTTTTG 314 DOSGFDGIYTYFATNGFTYGSSHQNWNNLKSFC 1035 TGAAAAGAACAACTTGATGTTTATCCCAAGTGTAGGCCCAGGATACATAGATACAAGCATCCGACCATGGAACACTCAGAACACCCCGGAACAGA 345 B K N N L M F I P S V G P G Y I D T S I R P W N T Q N T R N R 377 V N G K Y Y E V G L S A A L Q T H P S L I S I T S F N E W H E 1223 GAACTCAAATTGAAAAGGCTGTCCCCAAAAGAACTGCTAACACGATATACCTGGATTACCGGCCTCATAAGCCAAGTCTTTATCTAGAACTAAC 408 G T Q I E K A V P K R T A N T I Y L D Y R P H K P S L Y L E L T 1317 TCGAAAGTGGTCTGAAAAATTCAGTAAGGAAAGAATGACGTATGCATTGGATCAACAGCAGCCTGCTTCATAA 439 R K W S B K F S K B R M T Y A L D Q Q P A S

Fig. 6



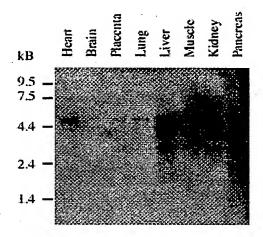


Fig. 8

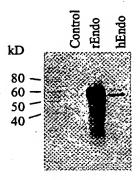


Fig. 9

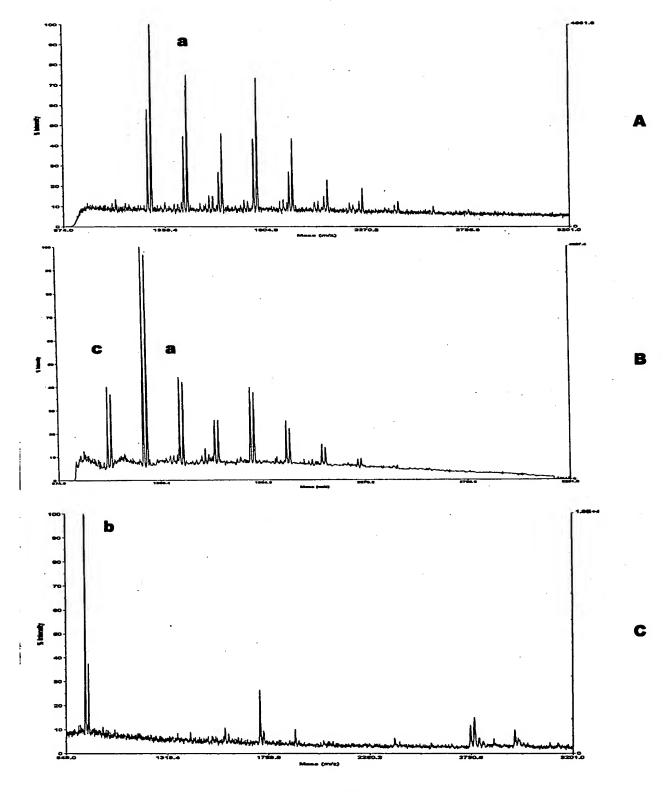


Fig. 10

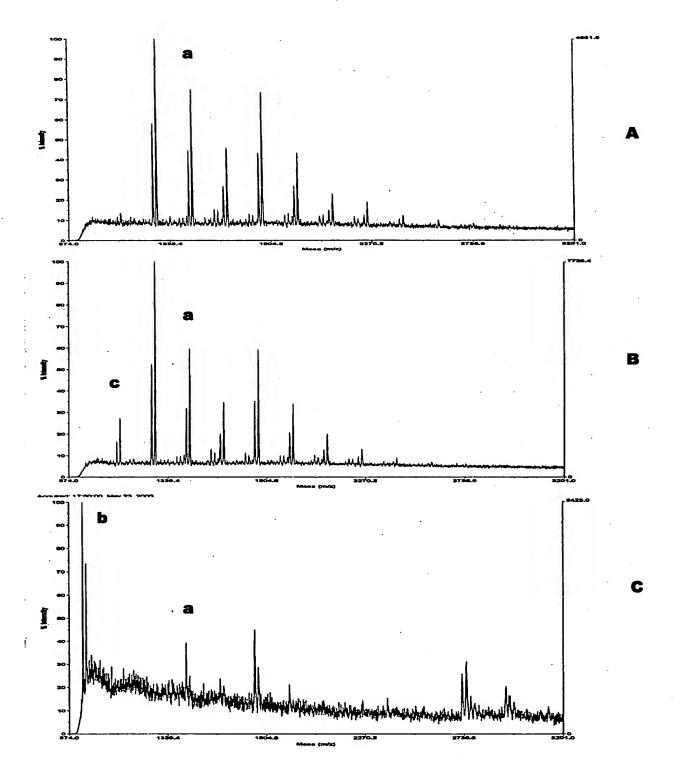


Fig. 11

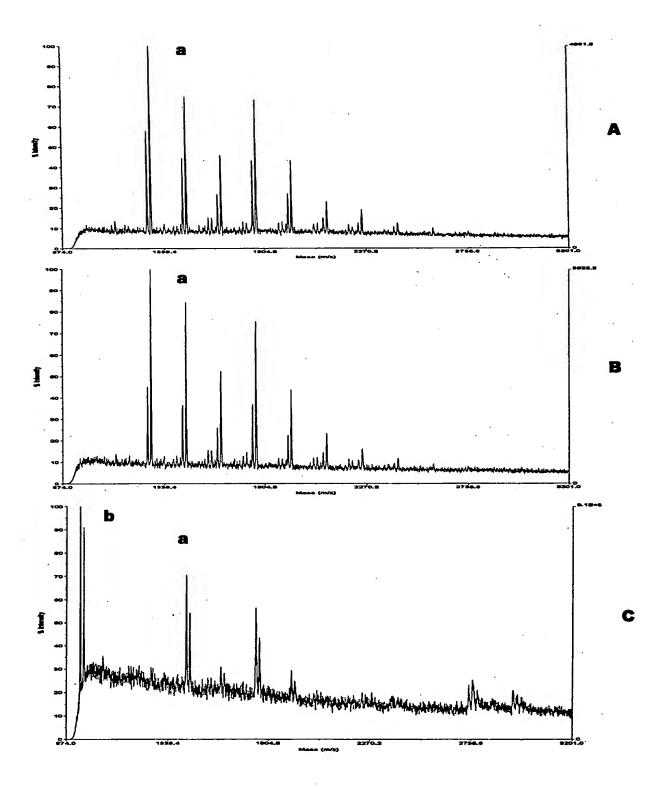


Fig. 12

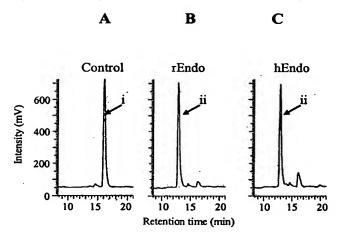
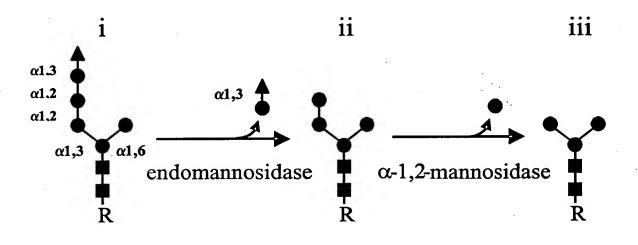


Fig. 13



- ▲ Glucose
- Mannose
- GlcNAc

Fig. 14

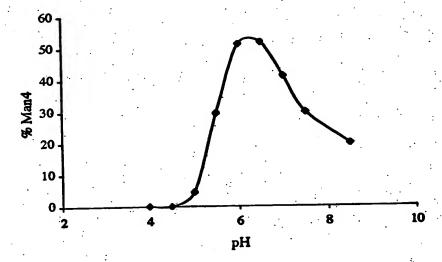


Fig. 15